

**MANUFACTURING SOURCE QUALIFICATION STATEMENT
(10 USC SECTION 2319)**

Stock Number (NSN): 1270-01-101-3600WF
Part Number (P/N): 682R535G01
Nomenclature: Mother Board Assembly
Application: APG-66 Radar, F-16 A/B Aircraft

SECTION C: QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE AND QUALIFICATION WAIVER REQUIREMENTS.

1. Prequalification Notice. The offeror shall notify OO-ALC/BC or, if responding to a solicitation, the contracting officer in OO-ALC/LGK of intent to qualify as a source for this item.
2. Manufacturing, Test and Inspection Capability. The offeror shall certify to the design control activity (OO-ALC/LGFM), the availability of the required manufacturing, test, inspection, and diagnostic facilities and equipment, or provisions for their acquisition or utilization from another source. When the offeror proposes to acquire these items, the offeror shall provide documented equipment orders or similar documentation for government inspection.
3. Data Verification. The offeror shall verify possession of a complete data package by providing a list of applicable drawings, procedures, and specifications currently in his possession related to the manufacture of the Mother Board Assembly. This drawing package must be sufficient to show in thorough technical detail how the Mother Board Assembly shall be manufactured and tested. In addition the package must contain an acceptance test procedure designed to be a final functional checkout of manufactured devices sufficient in detail to ensure all operational functions meet specification. When the offeror proposes to use industry standards during manufacture of the Mother Board Assembly, the offeror shall document the differences between the industry standard and the military standard, and state why those differences do not adversely affect the ability of the Mother Board Assembly to pass the final functional check-out. The design control activity shall determine if the industry standard is acceptable for use in the manufacture of the Mother Board Assembly. Manufacturing and testing of this unit may require the use of some classified data; if so, the vendor must be approved to receive and store classified material.
4. Process Verification. The offeror shall identify sources for materials and standards for internally used processes. The offeror shall further define/provide written procedures for the utilization of any special test or inspection facilities and/or equipment. This documentation shall also include a diagnostic procedure showing the process the Mother Board Assembly being manufactured would undergo. The manufacturing process shall show how the offeror shall produce, inspect, and perform a final functional checkout. Development of special test procedures not available from the government is required. The offeror shall develop those procedures for review and approval by the design control activity.

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5. Test and Evaluation or Verification. The offeror shall submit to the design control activity an explanation of how they will certify that the manufacturing procedures and test methods meet the specifications for the Mother Board Assembly. The government retains the option to inspect the offeror's manufacturing and testing facilities. To allow accomplishing this, the offeror's facilities shall be made available to government inspection during the qualification effort upon ten days written notice of intent to inspect.

6. Qualification Article. Upon satisfactory compliance with the provisions of paragraphs 1 to 5 above, the offeror shall provide the design control activity a qualification article, which is a production equivalent, for testing in a government facility. This unit shall be tested by the cognizant design control activity to verify it meets all form, fit, and function requirements. Upon successful completion of qualification testing, the Mother Board Assembly will be returned to the offeror.

Estimated likely costs for testing and evaluation which will be incurred by the potential offeror to become qualified: \$5,000.

7. Sensitive Military Technology. Not applicable.

8. Testing and Manufacturing Evaluation. The offeror shall be required to submit a complete test report verifying compliance with all performance, environmental, mechanical, and quality assurance requirements identified by Westinghouse Electric Corp. drawing 682R535 and related drawings. In addition the test report shall contain detailed documentation describing the testing procedures during manufacture. This data shall describe in detail the point(s) in the manufacturing process that testing occurred, and if failures were noted, the corrective action taken and the results of the retest. The government retains the option to inspect the manufacturing and testing process, including on-site witnessing of any or all manufacturing and testing activities. The offeror will provide notification to the government of testing and evaluation 30 days in advance so that the government can witness, if needed, coordinate needed activities, support, etc.

9. Time Completion Estimate. It is the estimate of the design control activity that completion of this qualification effort should require 180 days. This is based on complexity of the Mother Board Assembly and other factors. This is not a deadline but a notification to a potential offeror of the time we believe will be required. Events that occur during the qualification process may cause this time requirement to increase or perhaps decrease, depending on individual circumstances.

10. Time Limitation. An offeror may not be denied the opportunity to submit and have considered, an offer for a contract if the offeror can demonstrate to the satisfaction of the contracting officer that the offeror (or its product) meets these standards for qualification or can meet them before the date specified for award of the contract. The award will not be delayed to provide the vendor with an opportunity to demonstrate its ability to meet the standards specified in this source qualification statement.

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11. Evaluation of Proposals Not Previously Qualified. The offeror must be fully qualified in order to be eligible for a contract award. Therefore, the offeror must fulfill all of the requirements stated, in writing, in the source qualification statement before the date specified for award of the contract. The government reserves the right to award a contract at the time specified for award, to a qualified source even though other sources may not have finished qualifying.

12. Waiver. Any offeror who has had previous experience in the manufacture of the Mother Board Assembly or other similar items may apply to the design control activity for a waiver of all or part of the above requirements. A waiver will be granted only if the design control activity can establish the qualification of the offeror from previous knowledge/interface or from written inputs from the offeror.

13. Approval. Once the qualification requirements are met, the offeror will be listed as an approved source for this item. Approval, however, does not guarantee subsequent contract award.

1. The Clean Air Act (CAA) Amendments of 1990 and US Environmental Protection Agency (EPA) rules limit US consumption and production of Ozone Depleting Substances (ODS). In accordance with the requirements set forth in Section 326 of the Fiscal Year 94 Defense Authorization Act, regarding Ozone Layer Depleting Substances, all government requirements are deleted that specify the use of Class 1 ODSs.

2. In compliance with Air Force policy, any process, specification, or technical requirement which specifically calls out the use of an ODS, will no longer require the use of that specific chemical to accomplish the required task.

3. The following is a list of Class 1 controlled ODSs listed in AFR 19-15, which are commonly used in the United States Air Force. All government requirements for these chemicals are deleted:

<u>Chemical Name</u>	<u>Common Name</u>	<u>Chemical Formula</u>
Trichlorofluoromethane	CFC-11	CFC13
Dichlorodifluoromethane	CFC-12	CF2C12
1,1,2-Trichloro-1,2,2-Trifluoroethane	CFC-113	CC12FCC1F2
1,2-Dichlorotetrafluoroethane	CFC-114	CC1F2CC1F2
Chloropentafluoroethane	CFC-115	CC1F2CF3
Bromochlorodifluoromethane	Halon 1211	CBrC1F2
Bromotrifluoromethane	Halon 1301	CBrF3
1,2 Dibrotetrafluoroethane	Halon 2402	CBrF2CBrF2
1,1,1-Trichloroethane (methylchloroform HC-140a) ---		CH3CC13
Tetrachloromethane (carbontetrachloride, HC-10) ---		C14

4. All requirements to use the above chemicals are deleted from all specifications, standards, drawings, and technical publications. These chemicals are normally used in general cleaning, shock treatment of electronic components, flux removal, removal of coatings, and as thinners of marking ink and coatings. As an alternative, the USAF recommends the following substitutes:

<u>Application</u>	<u>Replacement Candidate</u>
Cleaning/Defluxing of Printed Circuit Boards	Isopropyl Alcohol, Terpene EC-7, Alpha Saponitler
General Cleaning of Metals and Composites	DS-104, DS-108
Repair/Removal of Conformal Coating or Bonded Assemblies	Acetone, 3M Terpene, DS-104, Dow Siloxane

5. In addition, many documents specifying the use of ODS, offer alternative methods in the same document which are ODS-free. These ODS-free methods should be used to accomplish the requirements of the process called for in the referenced document.

6. The above outlined changes to the government's requirements for this product does not relieve the contractor from exercising all diligence in the identification of an ODS that may not have been identified by the government in commonly used practices or technical references, whether included specifically in this contract or not.